

# ***METHOD OF MODELING PRODUCT DEMAND SUBJECT TO A LARGE NUMBER OF INTERACTIONS***

## **Abstract of Disclosure**

A data processing system-implemented method or data processing system readable medium can be used to model operating parameter(s) for a vendor. Detailed analysis of the impact of prices or other variables, on the demand of each item, is performed. These allow us to prune large numbers of prices or other variables which have little or no impact on a given item. After determining which prices and other variables are significantly related to an item, a more in-depth examination of that small list of variables may be performed. This in-depth examination will result in a set of final weighing factors, quantifying the effect of each on the item. The weighing factors for all other variables can be assigned a value of zero. By limiting the number of non-zero weighing factors, the time needed to generate all the weighing factors for a matrix (or matrices) is reduced.

Variable	Mean	Std. Dev.	Minimum	Maximum
Age	34.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital Status	0.3	0.5	0	1
Education	12.5	2.5	9	16
Income	35000	15000	10000	70000
Health	0.5	0.5	0	1
Smoking	0.2	0.4	0	1
Exercise	0.3	0.5	0	1
Stress	0.4	0.5	0	1
Depression	0.2	0.4	0	1
Loneliness	0.3	0.5	0	1
Life Satisfaction	0.6	0.5	0	1
Quality of Life	0.7	0.6	0	1
Overall Health	0.5	0.5	0	1
Physical Health	0.6	0.5	0	1
Mental Health	0.4	0.5	0	1
Social Health	0.5	0.5	0	1
Emotional Health	0.5	0.5	0	1
Psychological Health	0.5	0.5	0	1
Behavioral Health	0.5	0.5	0	1
Environmental Health	0.5	0.5	0	1
Occupational Health	0.5	0.5	0	1
Financial Health	0.5	0.5	0	1
Family Health	0.5	0.5	0	1
Community Health	0.5	0.5	0	1
National Health	0.5	0.5	0	1
Global Health	0.5	0.5	0	1
World Health	0.5	0.5	0	1
Universal Health	0.5	0.5	0	1
Human Health	0.5	0.5	0	1
Life Health	0.5	0.5	0	1
Existential Health	0.5	0.5	0	1
Transcendental Health	0.5	0.5	0	1
Supernatural Health	0.5	0.5	0	1
Mystical Health	0.5	0.5	0	1
Esoteric Health	0.5	0.5	0	1
Occult Health	0.5	0.5	0	1
Paranormal Health	0.5	0.5	0	1
Unexplained Health	0.5	0.5	0	1
Mysterious Health	0.5	0.5	0	1
Enigmatic Health	0.5	0.5	0	1
Obscure Health	0.5	0.5	0	1
Hidden Health	0.5	0.5	0	1
Secret Health	0.5	0.5	0	1
Unknown Health	0.5	0.5	0	1
Unseen Health	0.5	0.5	0	1
Invisible Health	0.5	0.5	0	1
Imperceptible Health	0.5	0.5	0	1
Undetectable Health	0.5	0.5	0	1
Unnoticeable Health	0.5	0.5	0	1
Unobservable Health	0.5	0.5	0	1
Unmeasurable Health	0.5	0.5	0	1
Unquantifiable Health	0.5	0.5	0	1
Unassessable Health	0.5	0.5	0	1
Unappraisable Health	0.5	0.5	0	1
Unvaluable Health	0.5	0.5	0	1
Unpriceless Health	0.5	0.5	0	1
Unlimited Health	0.5	0.5	0	1
Unrestricted Health	0.5	0.5	0	1
Unbound Health	0.5	0.5	0	1
Unfettered Health	0.5	0.5	0	1
Unhindered Health	0.5	0.5	0	1
Unimpeded Health	0.5	0.5	0	1
Unobstructed Health	0.5	0.5	0	1
Unimpeded Health	0.5	0.5	0	1
Unhindered Health	0.5	0.5	0	1
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Unimpeded Health	0.5	0.5	0	1
Unhindered Health	0.5	0.5	0	1
Unobstructed Health	0.5	0.5	0	1
Unimpeded Health	0.5	0.5	0	1
Unhindered Health	0.5			